

AMENDMENTS*Listing of Claims:*

The following listing of claims replaces all prior versions.

Please amend the pending claims as indicated below:

- 1 1. (Currently amended) A reflective imaging encoder comprising:
 - 2 a substrate;
 - 3 an encapsulated emitter mounted on the substrate, the encapsulated emitter
comprising a light emitting element and an encapsulant, wherein the encapsulant has
an encapsulant optical axis and the light emitting element is mounted offset from the
encapsulant optical axis, the encapsulated emitter having an emitter optical axis and
emitting light that is offset from the emitter optical axis;
 - 8 a diffuse reflective coder reflecting light from the encapsulated emitter;
 - 9 an imaging lens forming an inverted image of the reflected light from the
coder;
 - 11 an image detector mounted on the substrate receiving the inverted image from
the imaging lens; and
 - 13 a baffle between the encapsulated emitter and the image detector.
- 1 2. (Previously presented) The reflective imaging encoder of Claim 1 where the
image detector is a photodiode array.
- 1 3. (Previously presented) The reflective imaging encoder of Claim 1 where the
image detector is a CMOS imaging sensor.
- 1 4. (Previously presented) The reflective imaging encoder of Claim 1 where the
encapsulated emitter is a light emitting diode.
- 1 5. (Canceled)
- 1 6. (Canceled)
- 1 7. (Previously presented) The reflective imaging encoder of Claim 4 where the

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2 encapsulated emitter is a packaged light emitting diode.

1 8. (Canceled)

1 9. (Canceled)

1 10. (Canceled)

1 11. (Currently amended) The reflective imaging encoder of Claim 4 where the
2 light emitting diode includes a reflector cup.

1 12. (Canceled)

1 13. (Canceled)

1 14. (Canceled)

1 15. (Previously presented) The reflective imaging encoder of Claim 4 where the
2 encapsulated emitter is a plurality of light emitting diodes.

1 16. (Original) The reflective imaging encoder of Claim 1 where the imaging lens
2 is separate from the detector.

1 17. (Currently amended) The reflective imaging encoder of Claim 1 where the
2 imaging lens is incorporated into the encapsulation of the image detector.

1 18. (Currently amended) The reflective imaging encoder of Claim 1 further
2 comprising an aperture between the coder detector and the imaging lens.

1 19. (Original) The reflective imaging encoder of Claim 1 further including an
2 aperture between the imaging lens and the detector.

1 20. (Currently amended) The reflective imaging encoder of Claim 1 further

2 including a first aperture between the coder and the imaging lens and a second
3 aperture between the imaging lens and the image detector.

1 21.-25. (Canceled)

1 26. (Original) The reflective imaging encoder of Claim 1 where the detector is
2 mounted on the optical axis of the imaging lens.

1 27. (Canceled)